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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/693,753	10/24/2003	Purva R. Rajkotia	2003.07.003.WS0	2440	
23990	7590 12/15/2006		EXAMINER		
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DALLAS, TX	75380	ART UNIT	PAPER NUMBER		
•			2618		
			DATE MAILED: 12/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/693,	10/693,753 RAJKOTIA, PURVA R.		VA R.			
		Examin	er	Art Unit				
	•		Safaipour	2618				
Period for I	The MAILING DATE of this commun Reply	ication appears on t	he cover sheet v	vith the correspondence a	ddress			
WHICH - Extension after SIX - If NO pe - Failure to Any repl	RTENED STATUTORY PERIOD F EVER IS LONGER, FROM THE M ns of time may be available under the provisions (6) MONTHS from the mailing date of this comm riod for reply is specified above, the maximum state or reply within the set or extended period for reply by received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF T of 37 CFR 1.136(a). In no enunication. atutory period will apply and will, by statute, cause the apply and	THIS COMMUN event, however, may a will expire SIX (6) MC pplication to become A	ICATION. The reply be timely filed ENTHS from the mailing date of this of the ANDONED (35 U.S.C. § 133).				
Status	•							
1)⊠ R	esponsive to communication(s) file	ed on <i>24 October 20</i>	0 <u>03</u> .		·			
· —	This action is FINAL . 2b)⊠ This action is non-final.							
3)□ S	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
cl	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
4)⊠ C	4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.							
. 4a	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□ C	laim(s) is/are allowed.							
6)⊠ C	laim(s) <u>1-21</u> is/are rejected.							
•	laim(s) is/are objected to.							
8)C	laim(s) are subject to restric	ction and/or election	requirement.					
Application	Papers			•				
9)∐ Th	e specification is objected to by th	e Examiner.						
10)⊠ The drawing(s) filed on <u>24 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority un	der 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). ´a) All b) Some * c) None of:								
1,	☐ Certified copies of the priority	documents have be	een received.					
2.	☐ Certified copies of the priority	documents have be	een received in	Application No				
3.	□ Copies of the certified copies	of the priority docur	nents have bee	n received in this Nationa	l Stage			
	application from the Internation							
* Se	e the attached detailed Office action	on for a list of the ce	rtified copies no	t received.				
Attachment(s)			,				
	f References Cited (PTO-892)			Summary (PTO-413)				
	of Draftsperson's Patent Drawing Review (F tion Disclosure Statement(s) (PTO/SB/08)	PTO-948)		o(s)/Mail Date Informal Patent Application	٠			
	o(s)/Mail Date		6) Other: _	·				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jang et al (United States Patent Application Publication #2005/0025082 A1) in view of Patel (United States Patent Application Publication #2005/0037778 A1).

Consider claim 1, Jang et al disclose for use in a wireless network, a base station capable of transmitting broadcast data to a plurality of mobile stations in a coverage area of said base station, wherein said base station is capable of transmitting a first control message to said plurality of mobile stations (abstract, paragraphs 4 and 11-13; The broadcast multicast feature enables a mobile device to receive broadcast data or messages. For example, the mobile may receive a movie clip, text or stock option information using the broadcast multicast feature. Physically the broadcast is one way from the base station to the mobile end-user. The method

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includes communicating traffic mode broadcast multicast services (BCMCS) program information to mobiles, implementing a traffic channel with a BCMCS monitor request, establishing a shared supplemental channel and providing broadcast request update while the mobile is in the traffic state.).

However, Jang et al fail to disclose wherein said first control message operable to assign a shared public long code mask (PLCM) to said plurality of mobile stations.

In related art, Patel discloses that in a CDMA 2000 system, the public long code mask (PLCM) is typically formed using the electronic serial number (ESN) of the mobile station 12. The PLCM in a CDMA 2000 system is 42-bits long, however, other long code mask sizes exist. Typically, the PLCM includes a plurality of bits for indicating the type of the long code mask (private or public), along with a 32-bit ESN of the mobile station. The 32-bit ESN is often considered the variable portion of the PLCM. A CDMA 2000 system also provides that the base station may assign a PLCM of its choosing to a mobile station (figure 1, paragraphs 8-11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al to have a first control message operable to assign a shared PLCM to the mobile stations in order to code and differentiate traffic channels transmissions.

Consider claim 8, Jang et al disclose a wireless network comprising a plurality of base stations, wherein a first one of said plurality of base stations is capable of transmitting broadcast data to a plurality of mobile stations (abstract, paragraphs 4 and 11-13; The broadcast multicast feature enables a mobile device to receive broadcast data or messages. For example, the mobile

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may receive a movie clip, text or stock option information using the broadcast multicast feature. Physically the broadcast is one way from the base station to the mobile end-user. The method includes communicating traffic mode broadcast multicast services (BCMCS) program information to mobiles, implementing a traffic channel with a BCMCS monitor request, establishing a shared supplemental channel and providing broadcast request update while the mobile is in the traffic state.).

However, Jang et al fail to disclose wherein said first base station is capable of transmitting a first control message to said plurality of mobile stations, the first control message operable to assign a shared public long code mask (PLCM) to the plurality of mobile stations.

In related art, Patel discloses that in a CDMA 2000 system, the public long code mask (PLCM) is typically formed using the electronic serial number (ESN) of the mobile station 12. The PLCM in a CDMA 2000 system is 42-bits long, however, other long code mask sizes exist. Typically, the PLCM includes a plurality of bits for indicating the type of the long code mask (private or public), along with a 32-bit ESN of the mobile station. The 32-bit ESN is often considered the variable portion of the PLCM. A CDMA 2000 system also provides that the base station may assign a PLCM of its choosing to a mobile station (figure 1, paragraphs 8-11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al to have a first control message operable to assign a shared PLCM to the mobile stations in order to code and differentiate traffic channels transmissions.

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Consider claim 15, Jang et al disclose for use in a wireless network, a method of transmitting broadcast data from a base station to a plurality of mobile stations in a coverage area of the base station, the method comprising the steps of transmitting a first control message from the base station to the plurality of mobile stations (abstract, paragraphs 4 and 11-13; The broadcast multicast feature enables a mobile device to receive broadcast data or messages. For example, the mobile may receive a movie clip, text or stock option information using the broadcast multicast feature. Physically the broadcast is one way from the base station to the mobile end-user. The method includes communicating traffic mode broadcast multicast services (BCMCS) program information to mobiles, implementing a traffic channel with a BCMCS monitor request, establishing a shared supplemental channel and providing broadcast request update while the mobile is in the traffic state.)

However, Jang et al fail to disclose the first control message operable to assign a shared public long code mask (PLCM) to the plurality of mobile stations.

In related art, Patel discloses that in a CDMA 2000 system, the public long code mask (PLCM) is typically formed using the electronic serial number (ESN) of the mobile station 12. The PLCM in a CDMA 2000 system is 42-bits long, however, other long code mask sizes exist. Typically, the PLCM includes a plurality of bits for indicating the type of the long code mask (private or public), along with a 32-bit ESN of the mobile station. The 32-bit ESN is often considered the variable portion of the PLCM. A CDMA 2000 system also provides that the base station may assign a PLCM of its choosing to a mobile station (figure 1, paragraphs 8-11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al to have a first

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control message operable to assign a shared PLCM to the mobile stations in order to code and differentiate traffic channels transmissions.

Consider claims 2, 9, and 16, and as applied to claims 1, 8, and 15, respectively, Jang et al disclose the claimed invention except for said base station is further capable of transmitting a second control message to said plurality of mobile stations, said second control message operable to assign a shared Walsh Code (WC) to said plurality of mobile stations.

In related art, Patel discloses when a base station assigns a traffic channel over which the mobile station may communicate, the base station uses codes to differentiate one traffic channel transmission from another traffic channel transmission. In CDMA 2000, a different Walsh code is used to code each traffic channel of a base station. As with the PN offset, the Walsh code assigned to a traffic channel between the base station and a mobile station is communicated to the mobile station in a message over a forward control channel. At the mobile station, the mobile station decodes the transmission over the traffic channel and differentiates one traffic channel from another using the Walsh code (paragraph 7).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al in order to code and differentiate traffic channels transmissions.

Consider claims 3, 10, and 17, and as applied to claims 2, 9, and 16, respectively, Jang et al, fail to disclose the claimed invention wherein said base station transmits said broadcast data to said plurality of mobile stations using said shared PLCM and said shared WC.

In related art, Patel discloses that in a CDMA 2000 system, the public long code mask (PLCM) is typically formed using the electronic serial number (ESN) of the mobile station 12. The PLCM in a CDMA 2000 system is 42-bits long; however, other long code mask sizes exist. Typically, the PLCM includes a plurality of bits for indicating the type of the long code mask (private or public), along with a 32-bit ESN of the mobile station. The 32-bit ESN is often considered the variable portion of the PLCM. A CDMA 2000 system also provides that the base station may assign a PLCM of its choosing to a mobile station (figure 1, paragraphs 8-11). Furthermore, Patel discloses when a base station assigns a traffic channel over which the mobile station may communicate, the base station uses codes to differentiate one traffic channel transmission from another traffic channel transmission. In CDMA 2000, a different Walsh code is used to code each traffic channel of a base station. As with the PN offset, the Walsh code assigned to a traffic channel between the base station and a mobile station is communicated to the mobile station in a message over a forward control channel. At the mobile station, the mobile station decodes the transmission over the traffic channel and differentiates one traffic channel from another using the Walsh code (paragraph 7).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al in order to code and differentiate traffic channels transmissions.

Consider claims 4, 11, and 18, and as applied to claims 3, 10, and 17, respectively,

Jang et al discloses the claimed invention except for wherein said base station is further capable

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of transmitting mobile station-specific information to a first target mobile station by transmitting in said broadcast data a first packet data unit containing a first address identifier associated with said first target mobile station.

In related art, Patel discloses mapping the 56-bit mobile equipment identifiers (MEID) to a 24-bit value, concatenate a fixed 8-bit value to the 24-bit mapped value and create a 32-bit pseudo-ESN. The pseudo-ESN could then be used as the ESN in the conventional public long code mask generation process. (paragraph 10)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al in order for the base station to decode the traffic channel transmission for the mobile station.

Consider claims 5, 12, and 19, and as applied to claims 4, 11, and 18, respectively,

Jang et al disclose the claimed invention except for wherein said base station assigns said first
address identifier to said first target mobile station (paragraph 10).

Consider claims 6, 13, and 20, and as applied to claims 5, 12, and 19, respectively,

Jang et al disclose the claimed invention except for wherein said base station is further capable of
transmitting multicast information to a first group of mobile stations by transmitting in said
broadcast data a second packet data unit containing a second address identifier associated with
said first group of mobile stations.

In related art, Patel discloses all of the base stations use only one fixed format that supports all cell sizes, both large and small. In the base station-assigned PLCM proposal

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(hereinafter referred to as "BSAPLCM") the PLCM is formed of 42-bits, where the first 3 bits are utilized to distinguish between private/public code masks and to differentiate between the MEID generated PLCM and BS-Assigned PLCM. The remaining 39 bits of the PLCM are associated with three different components or fields--latitude (11 bits), longitude (11 bits), and a mobile station ID (MS_ID) (17 bits). The "longitude" and the "latitude" fields respectively contain a longitudinal value and a latitudinal value that represent the position of the base station. These values are expressed in units of "x" seconds, and are converted to an 11-bit number. The conversion to an 11-bit number is described in greater detail below. The mobile server ID field is a 17-bit field that is assigned by the base station to uniquely identify the mobile units 12. The longitude, latitude, and mobile server ID fields collectively make up the remaining 39 bits of the PLCM. (figure 2, paragraph 12)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Patel into the teachings of Jang et al in order for the base station to decode the traffic channel transmission for the mobile station.

Consider claims 7, 14, and 21, and as applied to claims 6, 13, and 20, respectively,

Jang et al disclose the claimed invention except for wherein said base station assigns said second address identifier to said first group of mobile stations. (figure 2, paragraph 12)

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Conclusion

2. Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

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Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bobbak Safaipour whose telephone number is (571) 270-1092. The Examiner can normally be reached on Monday-Friday from 9:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Edan Orgad can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Bobbak Safaipour B.S./bs

December 8, 2006

EDAN ORGAD PATENT EXAMINER/TELECOMM.

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